

FIG. 1

1 GGGGATCTATGGCGCGAAAATCCCTAATTTTCCCGGTGATTTTGCTCGCCGTTCTTCTCT  
1 M A R K S L I F P V I L L A V L L

61 TCTCTCCGCCGATTTACTCCGCCGGTCACGATTACCGCGACGCTCTCCGTAAATCTAGAA  
18 F S P P I Y S A G H D Y R D A L R K S R

121 TGGCGGCGGTAGAAAATAAAGAAGAAACACCAGAAACACCAGAAACTGATTTCAGAAGAAG  
38 M A A V E N K E E T P E T P E T D S E E

181 AAGTAACAATCAAAGCTAACCTAATCTTTGCAAATGGAAGCACACAACTGCAGAATTCA  
58 E V T I K A N L I F A N G S T Q T A E F

241 AAGGAACATTGAAAAAGCAACATCAGAAGCTTATGAGTATGCAGATACTTTGAAGAAAG  
78 K G T F E K A T S E A Y E Y A D T L K K

301 ACAATGGAGAATATACTGTAGATGTTGCAGATAAAGGTTATACTTTAAATATTAATTTG  
98 D N G E Y T V D V A D K G Y T L N I K F

361 CTGGAAGAAAGAAAAACACCAGAAGAACCAAAAGAAGTTACTATTAAAGCAAACCTTAA  
118 A G K E K T P E E P K E E V T I K A N L

421 TCTATGCAGATGGAAAAACACAAACAGCAGAATTCAAAGGAACATTTGAAGAAGCAACAG  
138 I Y A D G K T Q T A E F K G T F E E A T

481 CAGAAGCATACAGATATGCAGATGCATTAAAGAAGGACAATGGAGAATATACAGTAGACG  
158 A E A Y R Y A D A L K K D N G E Y T V D

541 TTGCAGATAAAGGTTATACTTTAAATATTAATTTTGCTGGAAAAGAAAAAACACCAGAAG  
178 V A D K G Y T L N I K F A G K E K T P E

601 AACCAAAAGAAGAAGTTACTATTAAAGCAAACCTTAATCTATGCAGATGGAAAAACACAAA  
198 E P K E E V T I K A N L I Y A D G K T Q

661 CAGCAGAATTCAAAGGAACATTTGAAGAAGCAACAGCAGAAGCATACAGATATGCTGACT  
218 T A E F K G T F E E A T A E A Y R Y A D

721 TATTAGCAGCAAAAGAAAATGGTAAATATACAGTAGACGTTGCAGATAAAGGTTATACTT  
238 L L A A K E N G K Y T V D V A D K G Y T

781 TAAATATTAATTTTGCTGGAAAAGAAAAACACCAGAAGAACCAAAAGAAGAAGTTACTA  
258 L N I K F A G K E K T P E E P K E E V T

841 TTAAAGCAAACCTTAATCTATGCAGATGGAAAACTCAAACAGCAGAGTTCAAAGGAACAT  
278 I K A N L I Y A D G K T Q T A E F K G T

901 TTGCAGAAGCAACAGCAGAAGCATACAGATACGCTGACTTATTAGCAAAAGAAAATGGTA  
298 F A E A T A E A Y R Y A D L L A K E N G

961 AATATACAGCAGACTTAGAAGATGGTGGATACACTATTAATATTAGATTTGCAGGTAAGA  
318 K Y T A D L E D G G Y T I N I R F A G K

1021 AAGTTGACGAAAAACCAGAAGGGATCCCTCCGACGCCGACCCCGACTAGTGCTAGCGGTC  
338 K V D E K P E G I P P T P T P T S A S G

Fig. 2a

FIG. 2a CONT.

1081 CAGCCGGCTGCCAGGTTCTGTGGGGTGTTAACCCAGTGGAAACACCGGTTTCACCGCTCAGG  
358 P A G C Q V L W G V N Q W N T G F T A Q

1141 TTACCGTTAAAAACACGGGCTCAGCTCCGGTTGACGGTTGGACCCTGACCTTCTCTTTTC  
378 V T V K N T G S A P V D G W T L T F S F

1201 CCTCGGGTCAGCAGGTAACCTCAGGCTTGGTCATCTACAGTTACCCAGTCTGGATCCGCTG  
398 P S G Q Q V T Q A W S S T V T Q S G S A

1261 TTACAGTTCGTAACGCTCCGTGGAACGGTAATATTCCTGCAGGTGGAACCGCTCAGTTCG  
418 V T V R N A P W N G N I P A G G T A Q F

1321 GTTTC AAGGTTCTCACACCGGTACCAACGCGGCCAACCGCTTTCTCTCTGAACGGGG  
438 G F Q G S H T G T N A A P T A F S L N G

1381 CCCCTTGACCGTTGGACATGATGAACTTTAAAGTCGAC  
458 A P C T V G H D E L

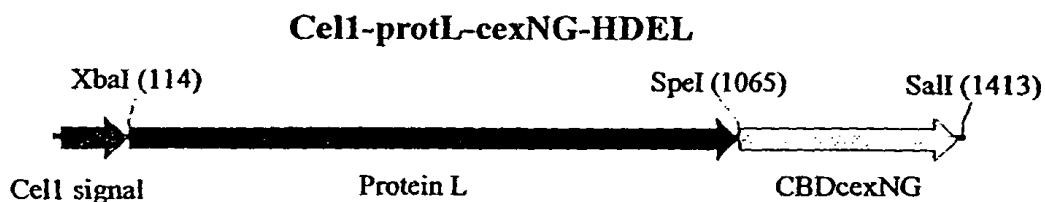


FIG. 2b

61 G C C C C C C C T C G A G C C C G G G A T G G C G C G A A A A T C C C T A A T T T T C C C G G T G A T T T T G C T C G C  
1 M A R K S L I F P V I L L A  
121 C G T T C T T C T C T T C T C C G C C G A T T T A C T C C G C C G G T C A C G A T T A C C G C G A C G C T C T C C G  
15 V L L F S P P I Y S A G H D Y R D A L R  
181 T A A G A C G T C C G G T C C A G C C G G C T G C C A G G T T C T G T G G G G T G T T A A C C A G T G G A A C A C C G G  
35 K T S G P A G C Q V L W G V N Q W N T G  
241 T T T C A C C G C T C A G G T T A C C G T T A A A A C A C G G G C T C A G C T C C G G T T G A C G G T T G G A C C C T  
55 F T A Q V T V K N T G S A P V D G W T L  
301 G A C C T T C T C T T T T C C C T C G G G T C A G C A G G T A A C T C A G G C T T G G T C A T C T A C A G T T A C C C A  
75 T F S F P S G Q Q V T Q A W S S T V T Q  
361 G T C T G G A T C C G C T G T T A C A G T T C G T A C G C T C C G T G G A A C G G T A A T A T T C C T G C A G G T G G  
95 S G S A V T V R N A P W N G N I P A G G  
421 A A C C G C T C A G T T C G G T T T C C A A G G T T C T C A C A C C G G T A C C A A C G C G C G C C A A C C G C T T T  
115 T A Q F G F Q G S H T G T N A A P T A F  
481 C T C T C G A A C G G G G C C C T T G C A C C G T T G G T C C G A C T A C C T C A C T A C A A C G C G T A A G C T  
135 S L N G A P C T V G P T T S P T T R K L  
541 C T G C A G C C T G G A C A A C G G G A C T G T G A C C A G T T C T G C C A C G A G A A C A G A A C T C T G T G G T  
155 C S L D N G D C D Q F C H E E Q N S V V  
601 G T G C T C T G C G C C C G C G G T A C A C C T G G C T G A C A A C G G C A A G G C C T G C A T T C C C A C A G G  
175 C S C A R G Y T L A D N G K A C I P T G  
661 G C C C T A C C C C T G T G G G A A C A G A C C C T G G A A C G C A G G A A G A G G T C A G T G G C C C A G G C C A C  
195 P Y P C G K Q T L E R R K R S V A Q A T  
721 C A G C A G C A G C G G G A G G C C C T G A C A G C A T C A C A T G G A A G C C A T A T G A T G C A G C C G A C C T  
215 S S S G E A P D S I T W K P Y D A A D L  
781 G G A C C C C A C C G A G A A C C C T T C G A C C T G C T T G A C T T T G A T C A G A C G C A G C C T G A G A G G G G  
235 D P T E N P F D L L D F D Q T Q P E R G  
841 C G A C A A C A C A T T G A A G G T C G T A T C G T G G G A G G C C A G G A A T G C A A G G A C G G G A G T G T C C  
255 D N N I E G R I V G G Q E C K D G E C P  
901 C T G G C A G G C C C T G C T C A T C A A T G A G G A A A C A G A G G T T T C T G T G G T G G A A C A T T C T G A G  
275 W Q A L L I N E E N E G F C G G T I L S  
961 C G A G T T C T A C A T C C T A A C G G C A G C C C A C T G T C T C T A C C A A G C C A A G A G A T T C A A G G T G A G  
295 E F Y I L T A A H C L Y Q A K R F K V R  
1021 G G T A G G G G A C C G G A A C A C G G A G C A G G A G G A G G G C G G T G A G G C G G T G C A C G A G G T G G A G G T  
315 V G D R N T E Q E E G G E A V H E V E V  
1081 G G T C A T C A A G C A C A A C C G G T T C A C A A G G A G A C C T A T G A C T T C G A C A T C G C C G T G C T C C G  
335 V I K H N R F T K E T Y D F D I A V L R  
1141 G C T C A A G A C C C C A T C A C C T T C C G C A T G A A C G T G G C G C C T G C C T G C C T C C C C G A G C G T G A  
355 L K T P I T F R M N V A P A C L P E R D

Fig. 3a

Fig. 3a CONT.

1201 CTGGGCCGAGTCCACGCTGATGACGCAGAAGACGGGGATTGTGAGCGGCTTCGGGGCGCAC  
 375 W A E S T L M T Q K T G I V S G F G R T  
  
 1261 CCACGAGAAGGGCCGGCAGTCCACCAGGCTCAAGATGCTGGAGGTGCCCTACGTGGACCG  
 395 H E K G R Q S T R L K M L E V P Y V D R  
  
 1321 CAACAGCTGCAAGCTGTCCAGCAGCTTCATCATCACCAGAACATGTTCTGTGCCGGCTA  
 415 N S C K L S S S F I I T Q N M F C A G Y  
  
 1381 CGACACCAAGCAGGAGGATGCCTGCCAGGGGGACAGCGGGGGCCCGCACGTCACCCGCTT  
 435 D T K Q E D A C Q G D S G G P H V T R F  
  
 1441 CAAGGACACCTACTTCGTGACAGGCATCGTCAGCTGGGGAGAGGGCTGTGCCCGTAAGGG  
 455 K D T Y F V T G I V S W G E G C A R K G  
  
 1501 GAAGTACGGGATCTACACCAAGGTCACCGCCTTCCTCAAGTGGATCGACAGGTCCATGAA  
 475 K Y G I Y T K V T A F L K W I D R S M K  
  
 1561 AACCAGGGGCTTGCCCAAGGCCAAGCCTACTAGTCATGATGAACTTTAAGAGCTCCAGCT  
 495 T R G L P K A K P T S H D E L

## Sig-cex-Fx-HDEL

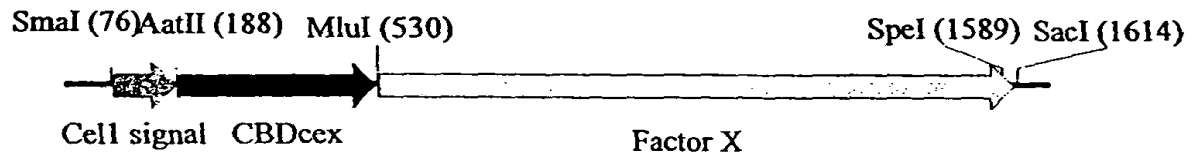


Fig. 3b

61 G C C C C C C C T C G A G C C C G G G A T G G C G C G A A A A T C C C T A A T T T T C C C G G T G A T T T T G C T C G C  
1 M A R K S L I F P V I L L A  
121 C G T T C T T C T T C T C T C C G C C G A T T T A C T C C G C C G G T C A C G A T T A C C G C G A C G C T C T C C G  
15 V L L F S P P I Y S A G H D Y R D A L R  
181 T A A G A C G T C G G C T A G C G G A A T A A T G G T A G C G A C A G C A A A A T A C G G A A C A C C G G T C A T C G A  
35 K T S A S G I M V A T A K Y G T P V I D  
241 T G G A G A G A T A G A C G A G A T C T G G A A C A C G A C A G A G G A G A T A G A G A C G A A A G C G G T G G C C A T  
55 G E I D E I W N T T E E I E T K A V A M  
301 G G G A T C G C T T G A C A A G A A C G C G A C A G C G A A A G T G A G G G T G C T G T G G G A C G A G A A C T A C C T  
75 G S L D K N A T A K V R V L W D E N Y L  
361 G T A C G T A C T T G C A A T C G T G A A A G A C C C C G T T C T G A A C A A G A C A A C A G C A A C C C G T G G G A  
95 Y V L A I V K D P V L N K D N S N P W E  
421 A C A G G A T T C C G T G G A G A T C T T C A T C G A C G A G A A C A A C C A C A A G A C A G G A T A C T A C G A A G A  
115 Q D S V E I F I D E N N H K T G Y Y E D  
481 C G A C G A C G C A C A G T T C A G G G T G A A C T A C A T G A A C G A G C A G A C G T T T G G A A C G G G A G G A A G  
135 D D A Q F R V N Y M N E Q T F G T G G S  
541 T C C A G C G A G G T T C A A G A C A G C G G T G A A A C T G A T C G A A G G A G G A T A C A T A G T T G A G G C A G C  
155 P A R F K T A V K L I E G G Y I V E A A  
601 G A T C A A G T G G A A G A C G A T C A A A C C C A C A C C G A A C A C G G T G A T A G G A T T C A A C A T C C A G G T  
175 I K W K T I K P T P N T V I G F N I Q V  
661 G A A C G A T G C G A A C G A G A A A G G G C A G A G G T C G G T A T C A T C T C T G G A G C G A T C C C A C A A A  
195 N D A N E K G Q R V G I I S W S D P T N  
721 C A A C A G C T G G A G A G A T C C T T C A A A G T T C G G T A A C C T C A G G C T C A T C A A G G G A T C T G G T C C  
215 N S W R D P S K F G N L R L I K G S G P  
781 G A C C C C A T C C C C A A C G C G T A A G C T C T G C A G C C T G G A C A A C G G G G A C T G T G A C C A G T T C T G  
235 T P S P T R K L C S L D N G D C D Q F C  
841 C C A C G A G G A A C A G A A C T C T G T G G T G T G C T C C T G C G C C C G C G G T A C A C C C T G G C T G A C A A  
255 H E E Q N S V V C S C A R G Y T L A D N  
901 C G G C A A G G C C T G C A T T C C C A C A G G G C C T A C C C T G T G G G A A C A G A C C C T G G A A C G C A G  
275 G K A C I P T G P Y P C G K Q T L E R R  
961 G A A G A G G T C A G T G G C C C A G G C C A C C A G C A G C G G G G A G G C C C T G A C A G C A T C A C A T G  
295 K R S V A Q A T S S S G E A P D S I T W  
1021 G A A G C C A T A T G A T G C A G C C G A C C T G G A C C C C A C C G A G A A C C C C T T C G A C C T G C T T G A C T T  
315 K P Y D A A D L D P T E N P F D L L D F  
1081 T G A T C A G A C G C A G C C T G A G A G G G G C A C A A C A C A T T G A A G G T C G T A T C G T G G G A G G C C A  
335 D Q T Q P E R G D N N I E G R I V G G Q  
1141 G G A A T G C A A G G A C G G G G A G T G T C C C T G G C A G G C C C T G C T C A T C A A T G A G G A A A A C G A G G G  
355 E C K D G E C P W Q A L L I N E E N E G

Fig. 4a

Fig. 4a cont.

1201 TTTCTGTGGTGGAAACCATTCTGAGCGAGTTCTACATCCTAACGGCAGCCCACTGTCTCTA  
 375 F C G G T I L S E F Y I L T A A H C L Y  
 1261 CCAAGCCAAGAGATTCAAGGTGAGGGTAGGGGACCGGAACACGGAGCAGGAGGAGGGCGG  
 395 Q A K R F K V R V G D R N T E Q E E G G  
 1321 TGAGGCGGTGCACGAGGTGGAGGTGGTCATCAAGCACAACCGGTTCAAAAGGAGACCTA  
 415 E A V H E V E V V I K H N R F T K E T Y  
 1381 TGACTTCGACATCGCCGTGCTCCGGCTCAAGACCCCCATCACCTTCCGCATGAACGTGGC  
 435 D F D I A V L R L K T P I T F R M N V A  
 1441 GCCTGCCTGCCTCCCCGAGCGTGACTGGGCGGAGTCCACGCTGATGACGCAGAAGACGGG  
 455 P A C L P E R D W A E S T L M T Q K T G  
 1501 GATTGTGAGCGGCTTCGGGCGCACCCACGAGAAGGGCCGGCAGTCCACCAGGCTCAAGAT  
 475 I V S G F G R T H E K G R Q S T R L K M  
 1561 GCTGGAGGTGCCCTACGTGGACCGCAACAGCTGCAAGCTGTCCAGCAGCTTCATCATCAC  
 495 L E V P Y V D R N S C K L S S S F I I T  
 1621 CCAGAACATGTTCTGTGCCGGCTACGACACCAAGCAGGAGGATGCCTGCCAGGGGGACAG  
 515 Q N M F C A G Y D T K Q E D A C Q G D S  
 1681 CGGGGGCCCGCACGTCAACCGCTTCAAGGACACCTACTTCGTGACAGGCATCGTCAGCTG  
 535 G G P H V T R F K D T Y F V T G I V S W  
 1741 GGGAGAGGGCTGTGCCGTAAGGGGAAGTACGGGATCTACACCAAGGTACCCGCTTCCT  
 555 G E G C A R K G K Y G I Y T K V T A F L  
 1801 CAAGTGGATCGACAGGTCCATGAAAACAGGGGCTTGCCCAAGGCCAAGCCTACTAGTCA  
 575 K W I D R S M K T R G L P K A K P T S H  
 1861 TGATGAACTTTAAGAGCTCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGG  
 595 D E L

## Cell-TmaIX-Fx-HDEL

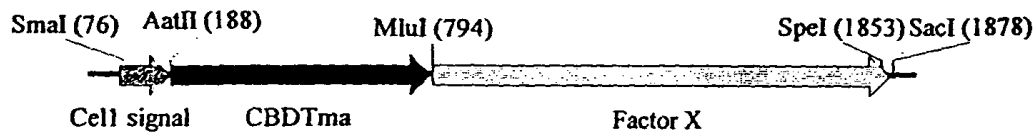


Fig. 4b

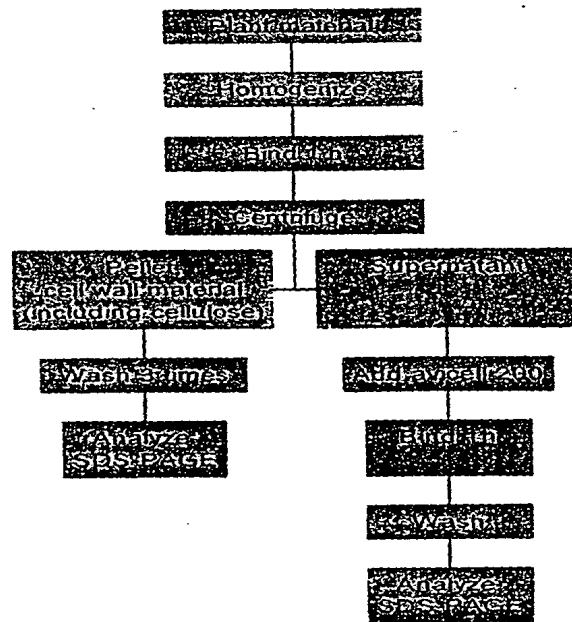


Fig. 5

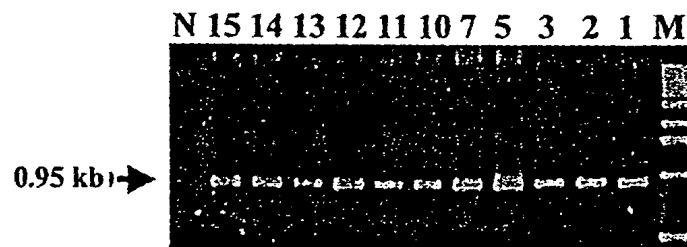


Fig. 6



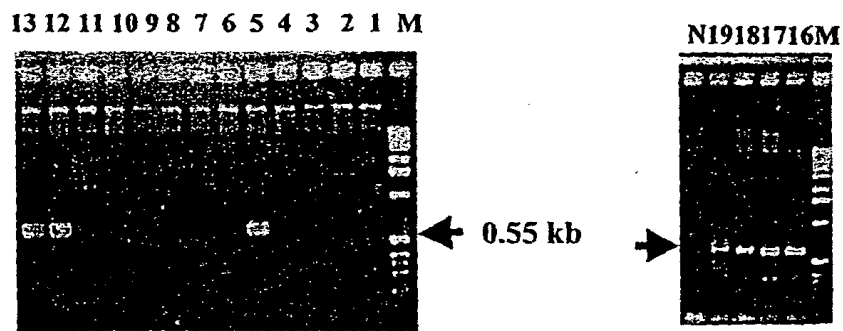


FIG. 7a

FIG. 7b

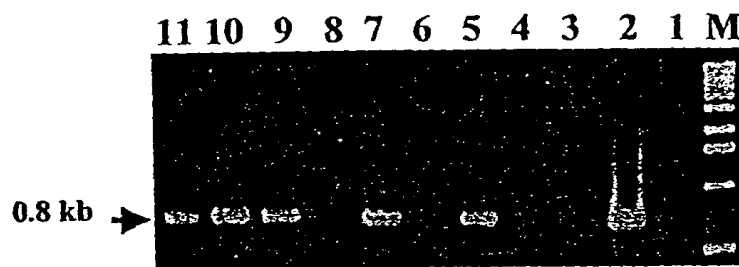


FIG. 8a

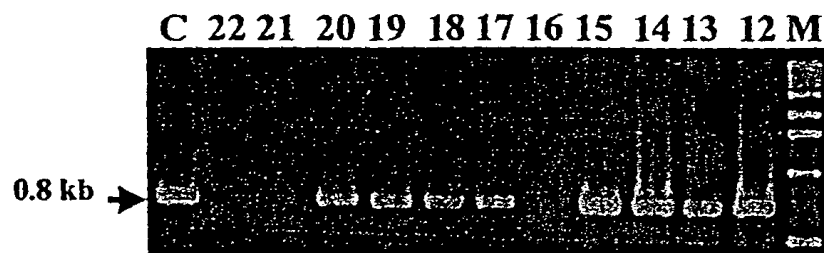


FIG. 8b

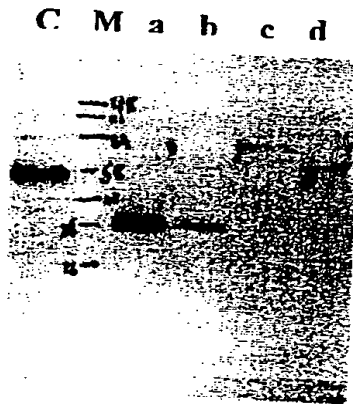


FIG. 9a

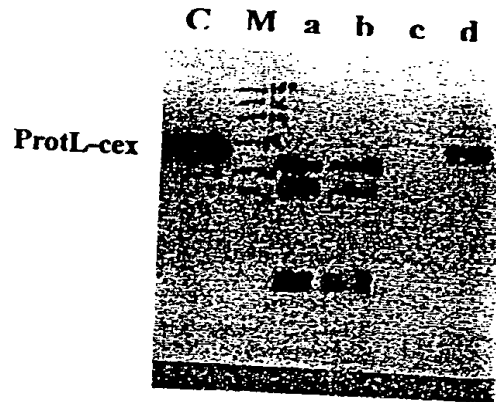


FIG. 9b

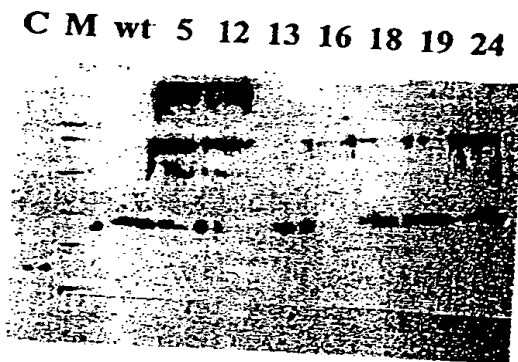


FIG. 10a

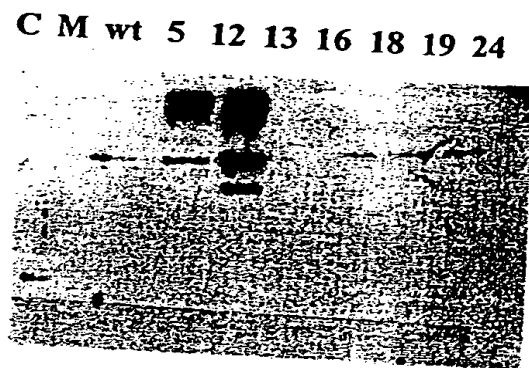


FIG. 10b

FIG. 11a

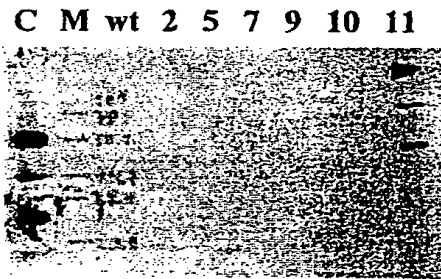


FIG. 11c

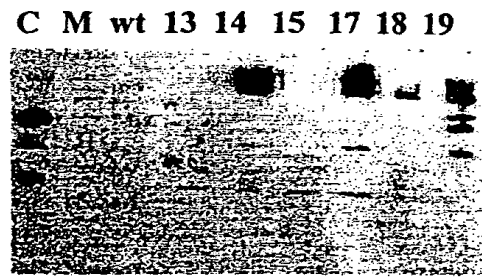


FIG. 11b

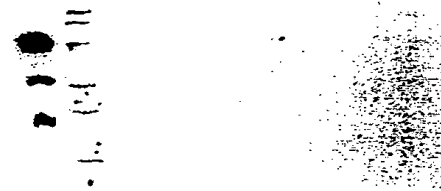


FIG. 11d

